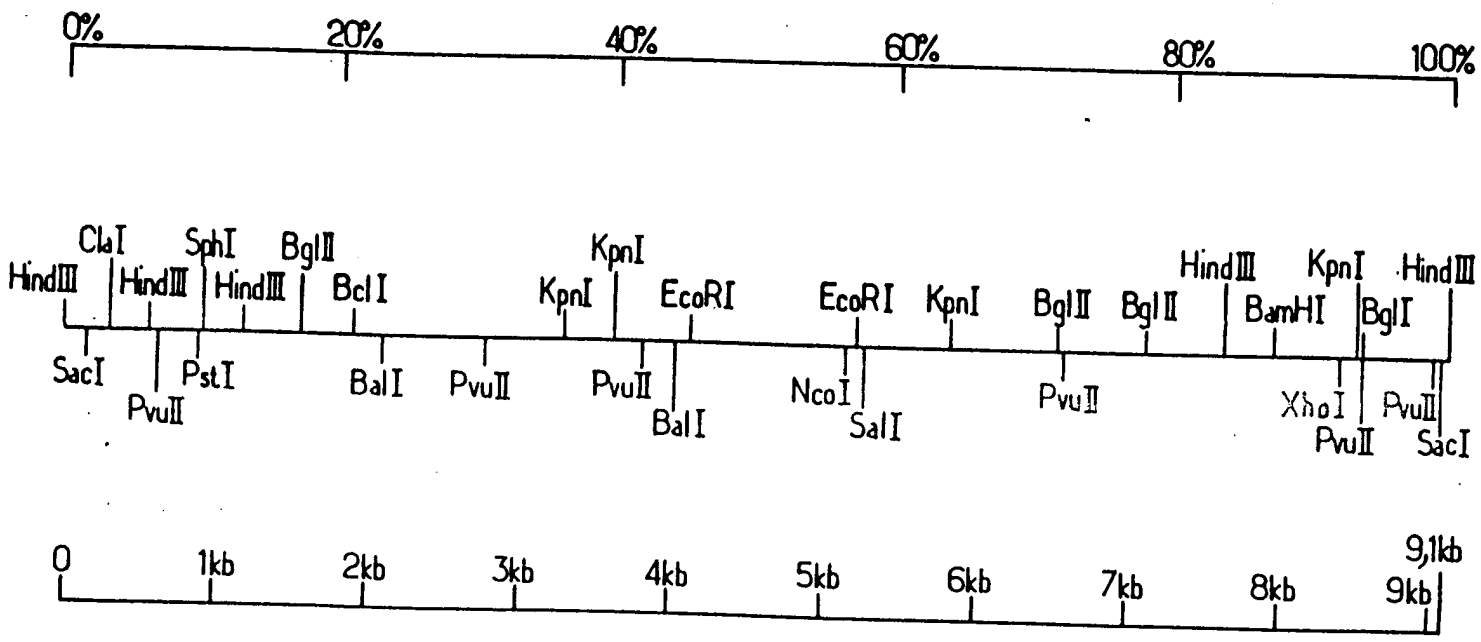
FIG.1.



0795306D

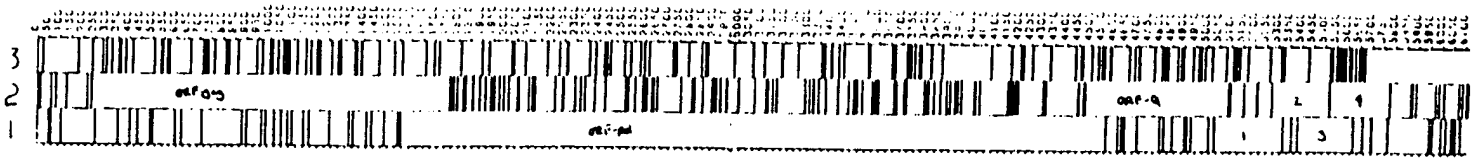


Fig. 2

07953060

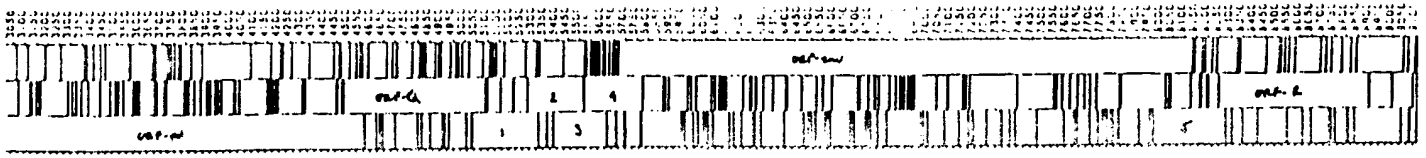


Fig. 3

07953060

Fig. 4

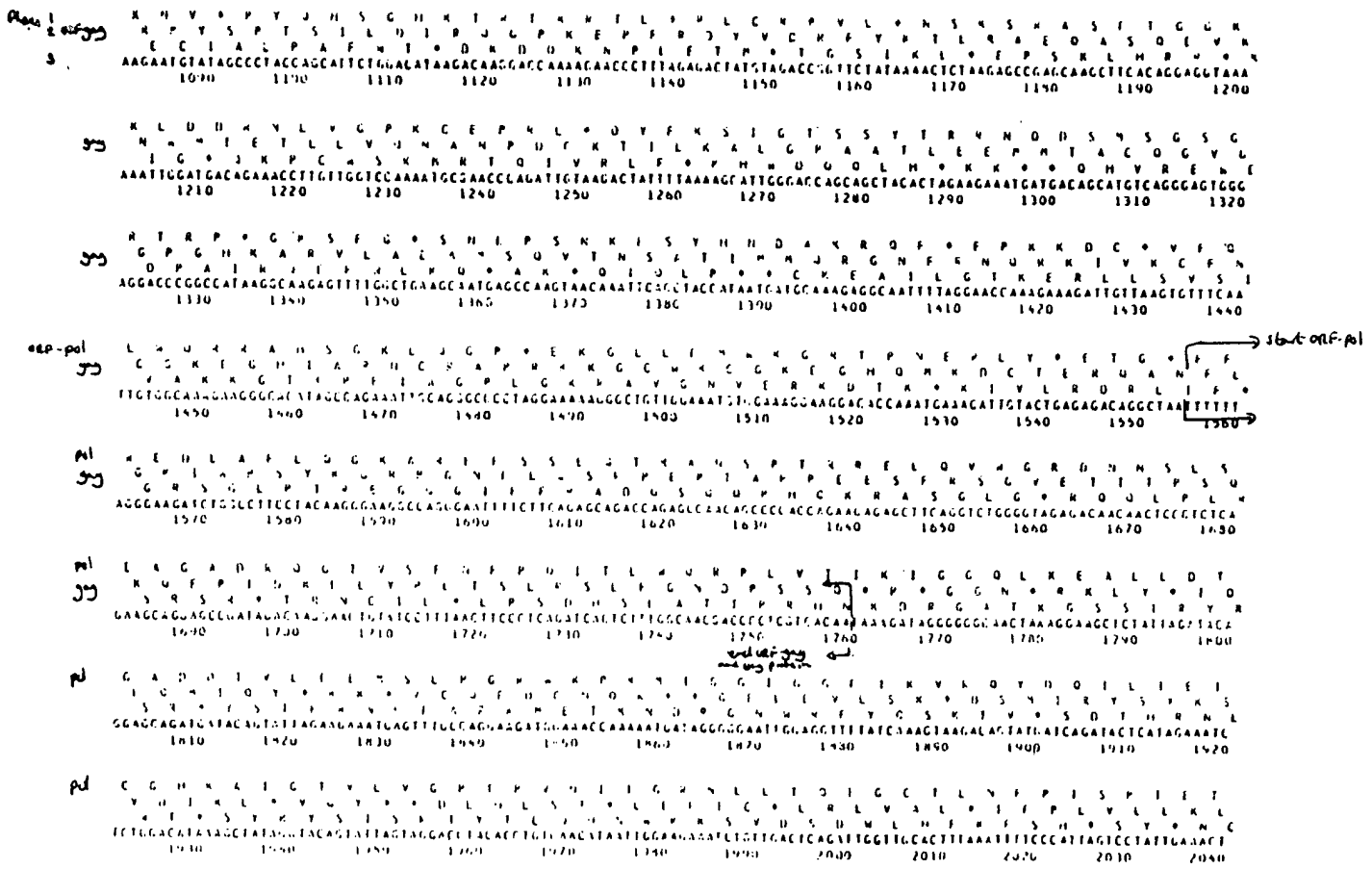


Fig. 5

07953060

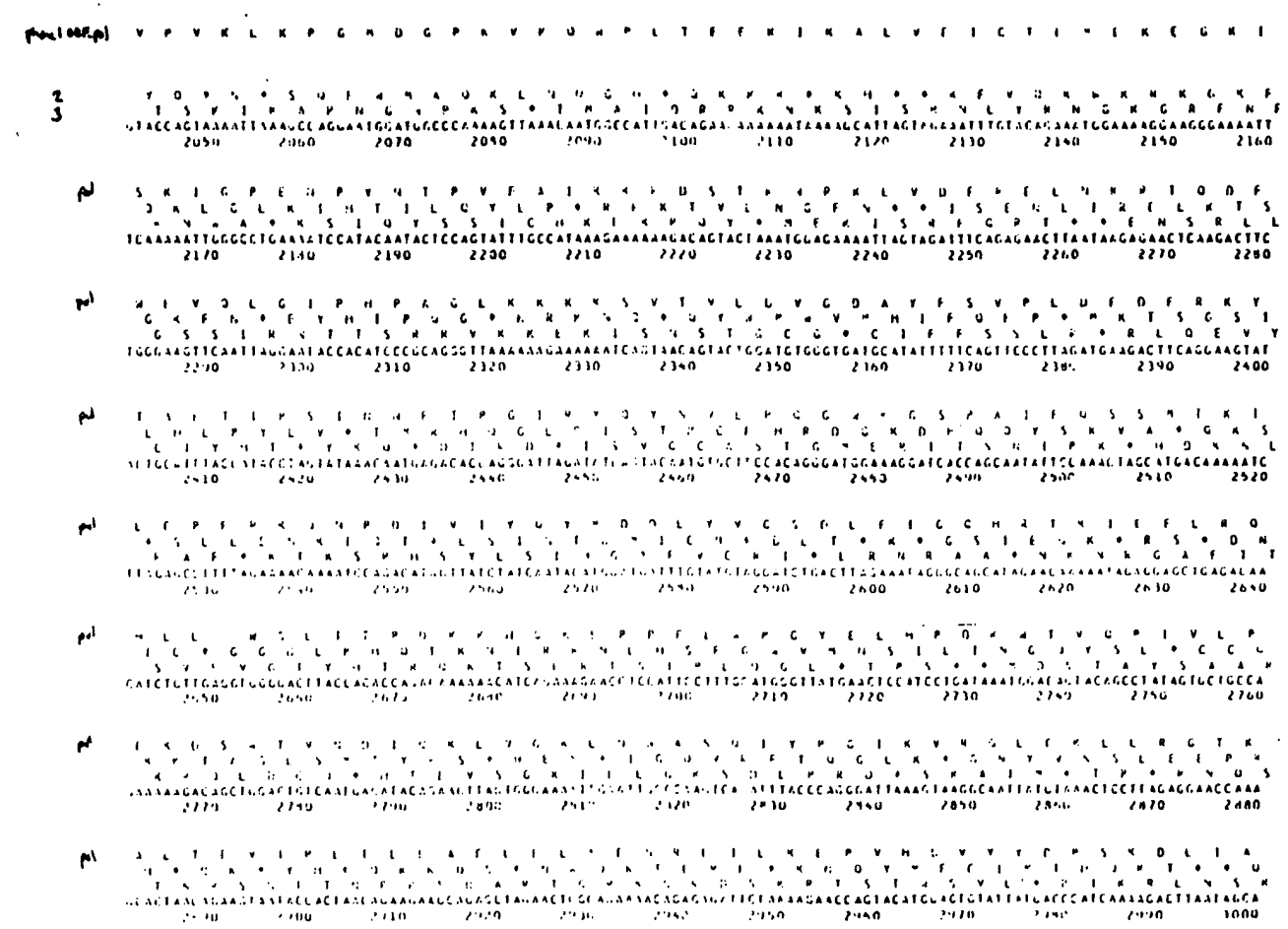


Fig 6

07953060

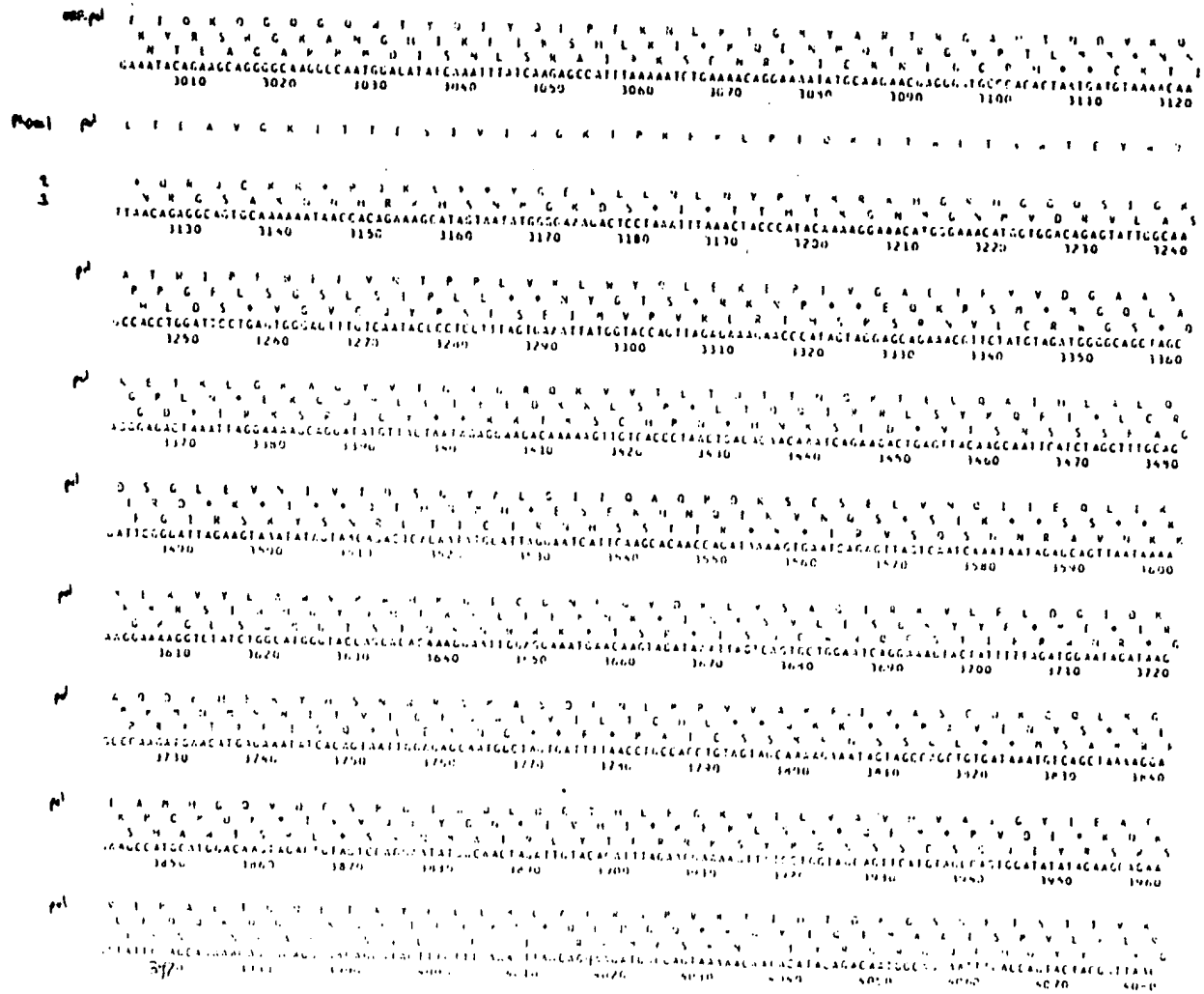


Fig 7

0795060

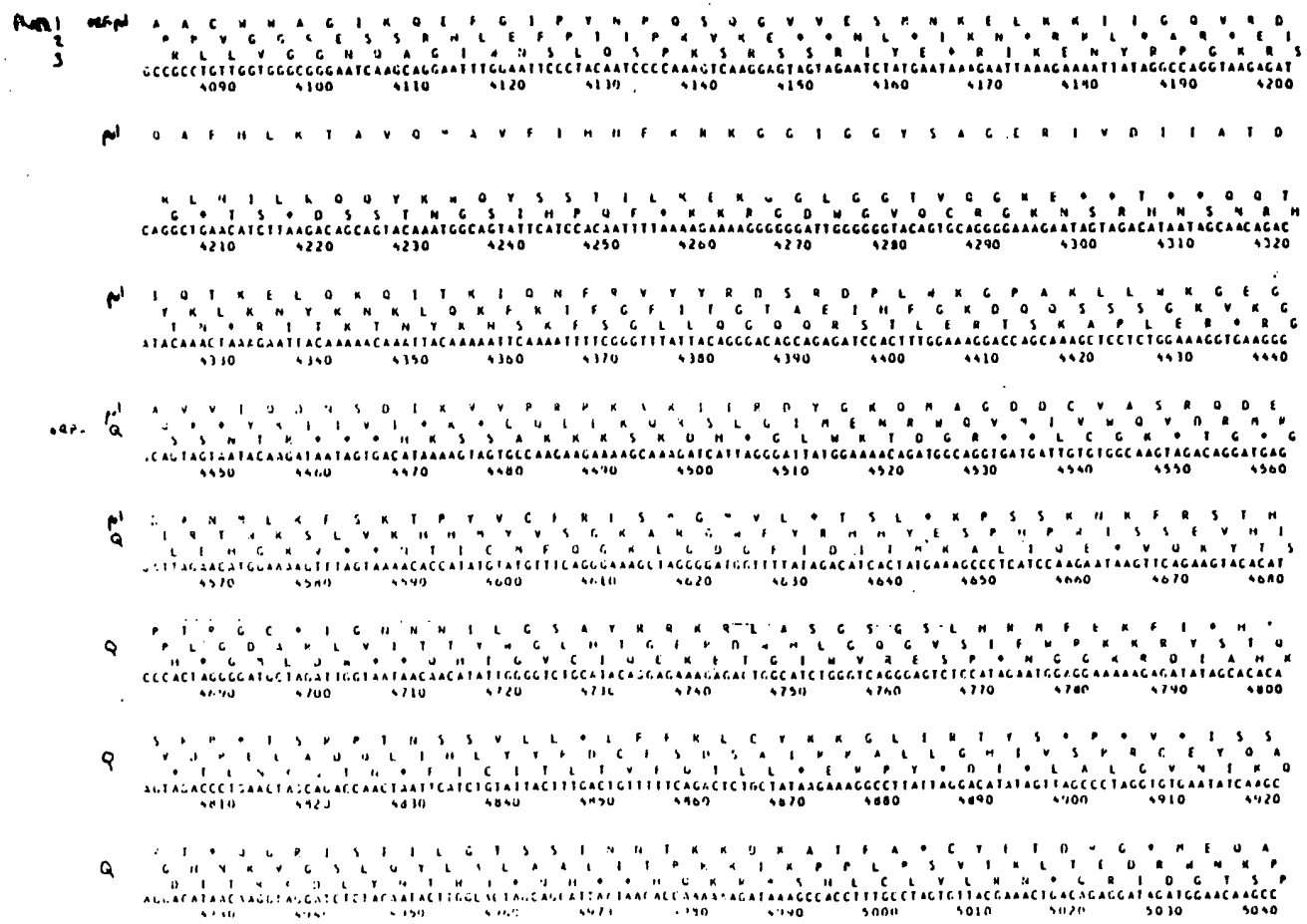


Fig. 8

07/953060

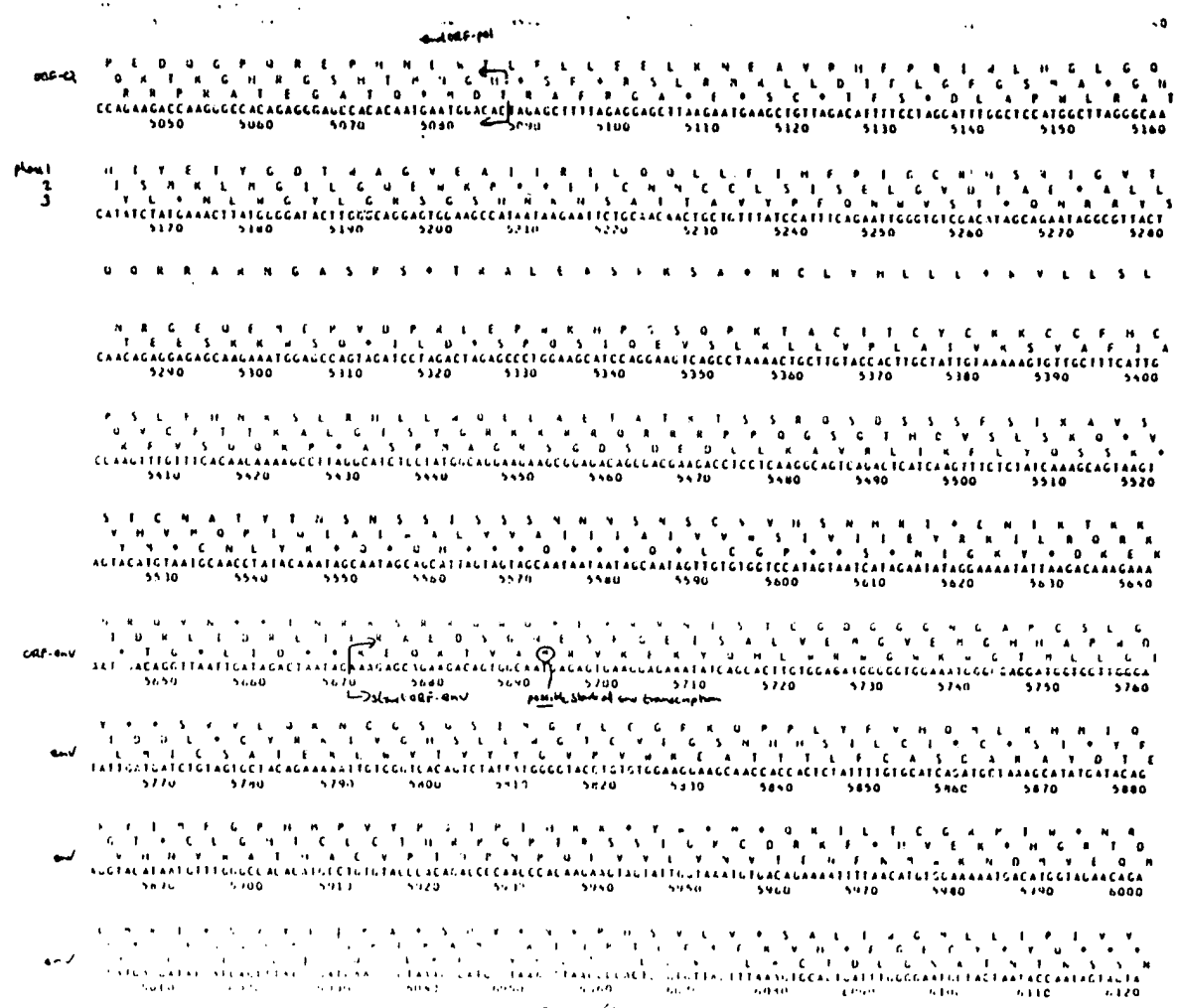


Fig 9

31

07/953060

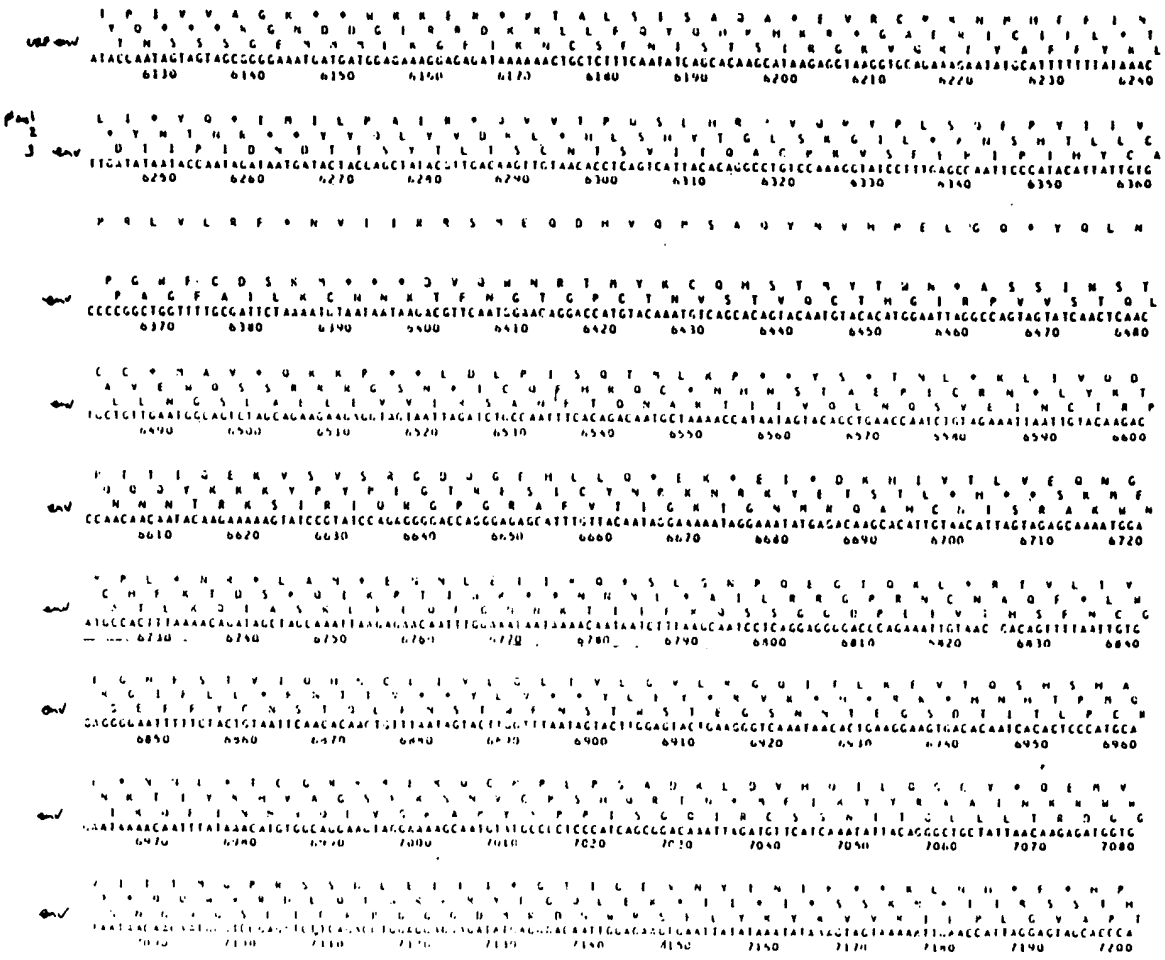


Fig 10

14

7117244
0/793060

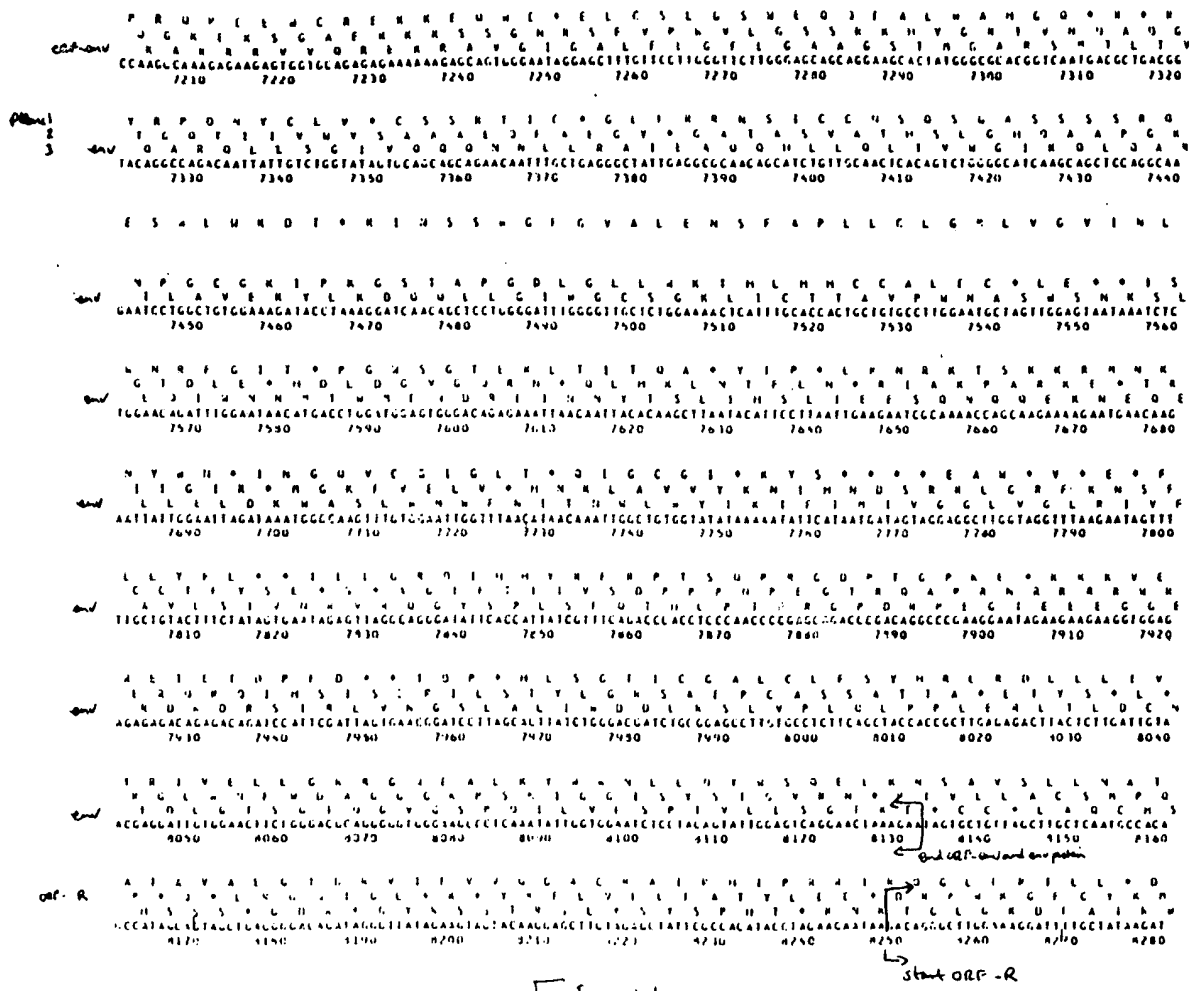


Fig 11

07953060

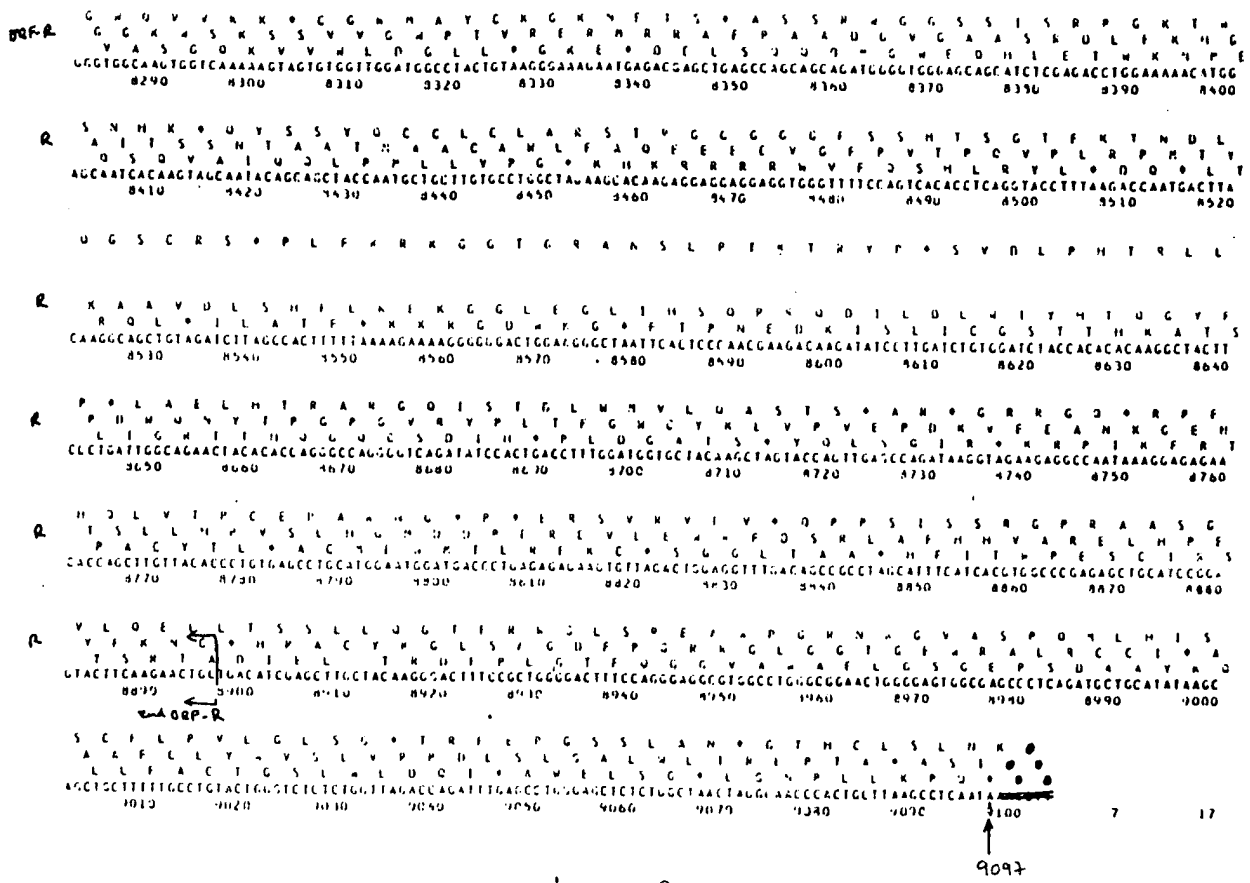
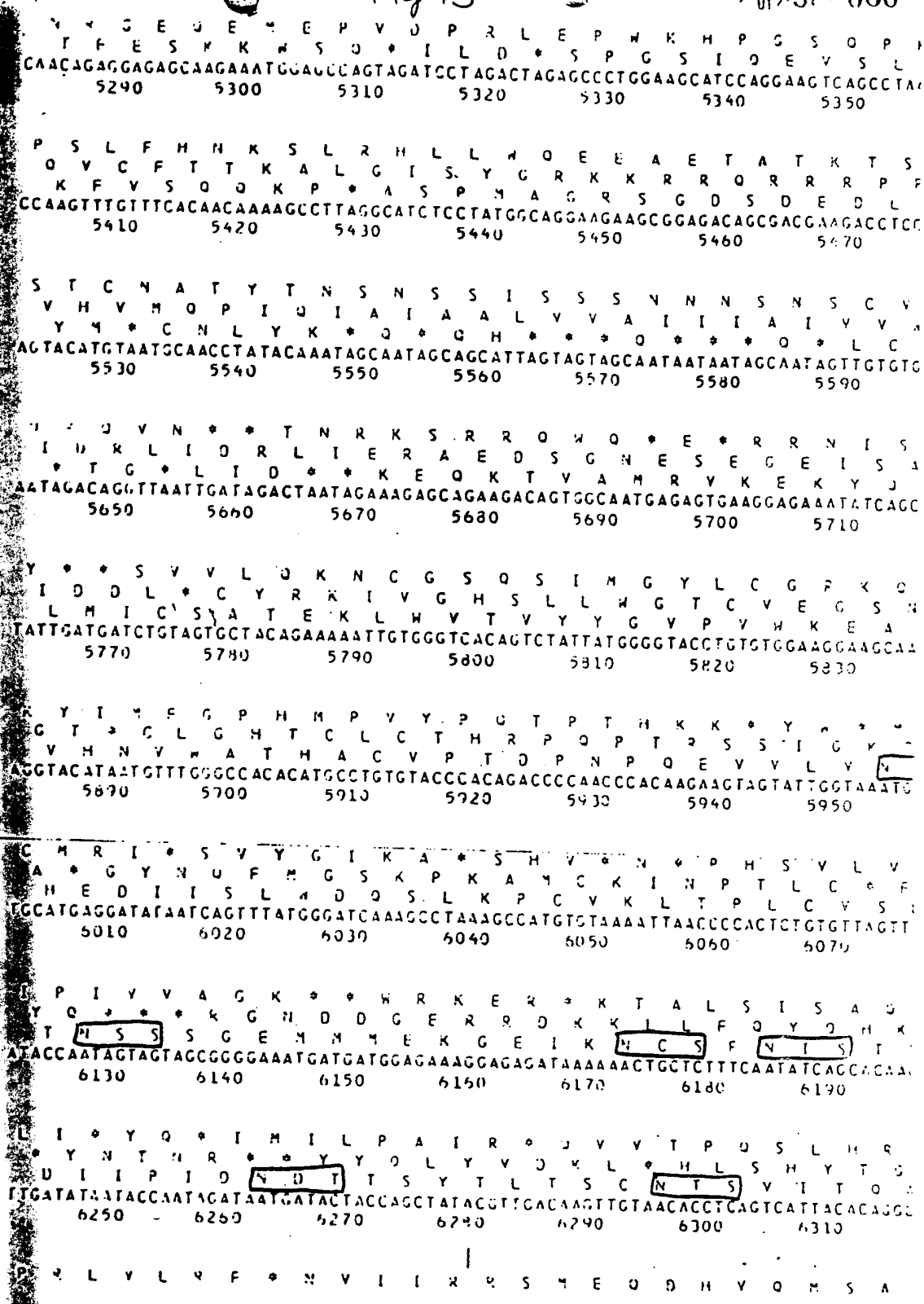


fig 12

0795960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5770 5780 5790 5800 5810 5820 5830
5890 5900 5910 5920 5930 5940 5950
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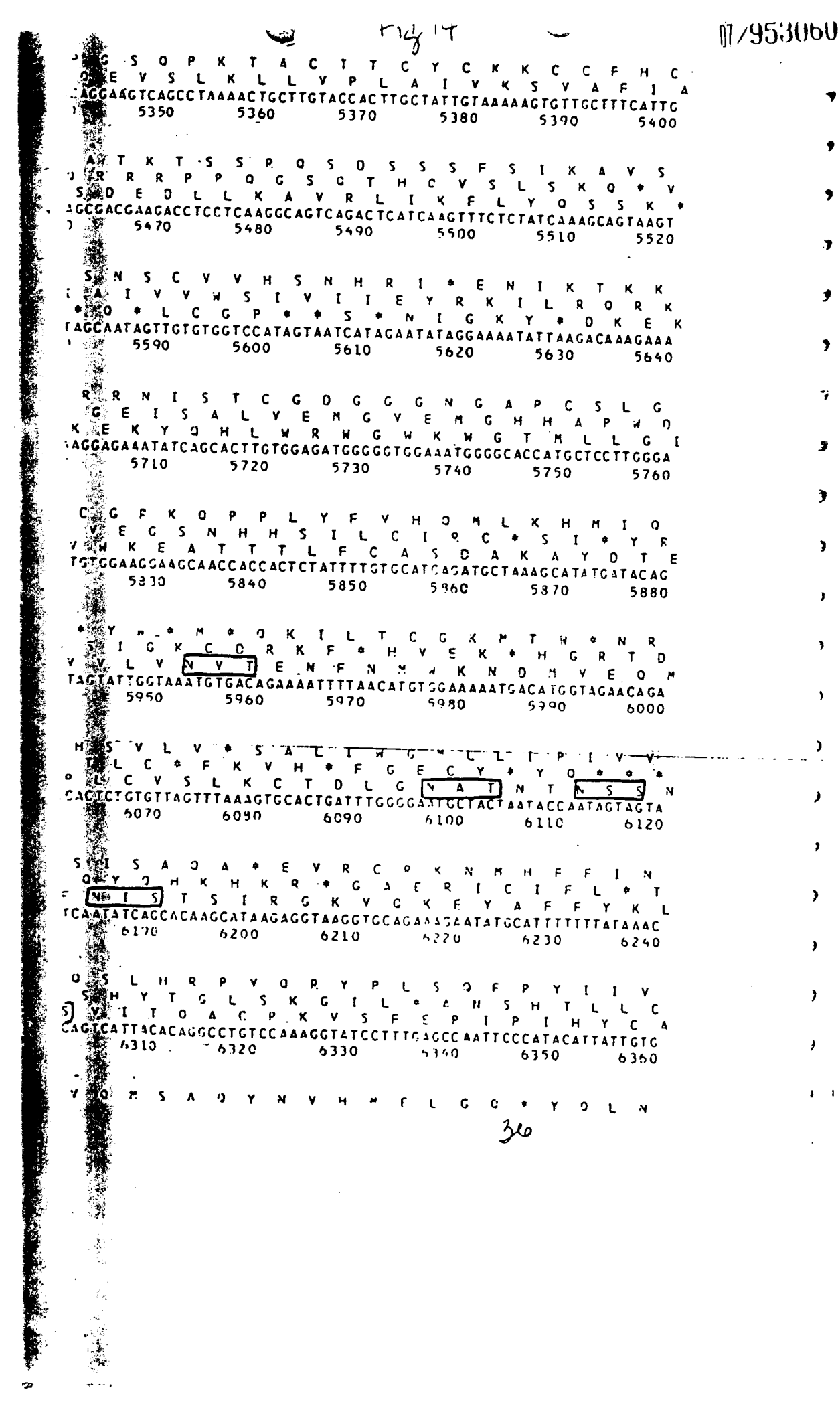
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5470 5480 5490 5500 5510 5520
5590 5600 5610 5620 5630 5640
5710 5720 5730 5740 5750 5760
5830 5840 5850 5860 5870 5880
5950 5960 5970 5980 5990 6000
6070 6080 6090 6100 6110 6120
6190 6200 6210 6220 6230 6240
6310 6320 6330 6340 6350 6360

Fig 15

11/953060

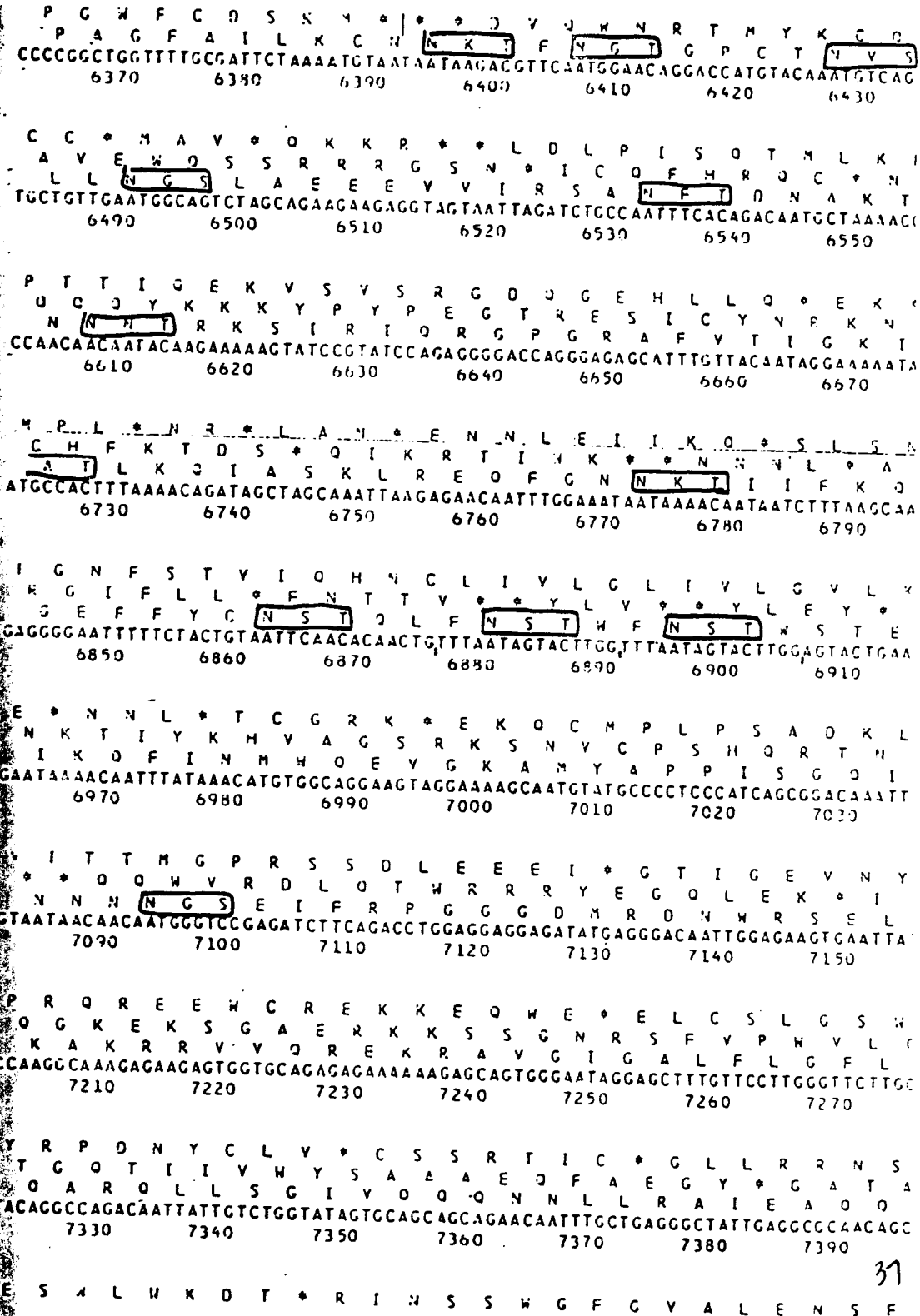
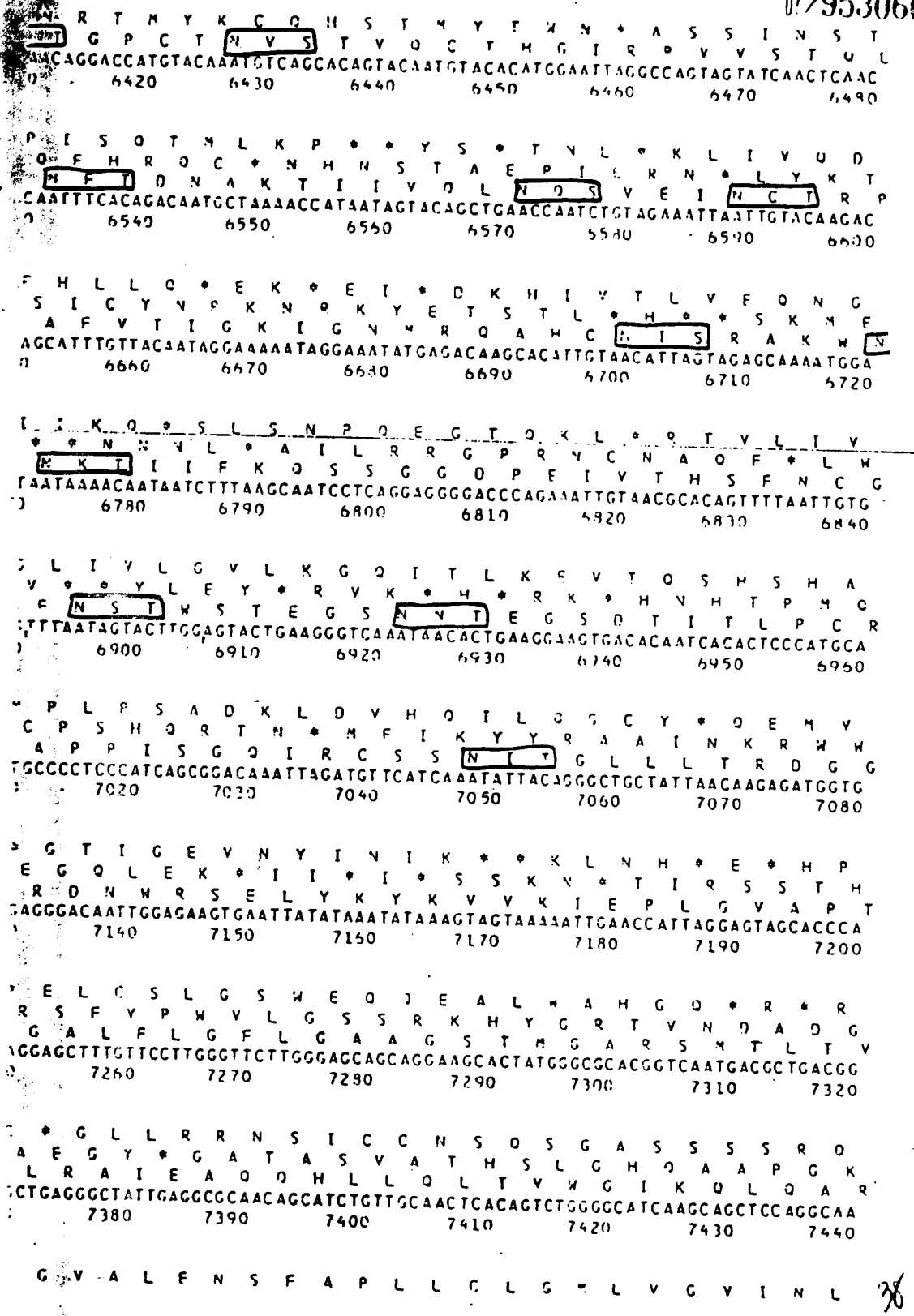
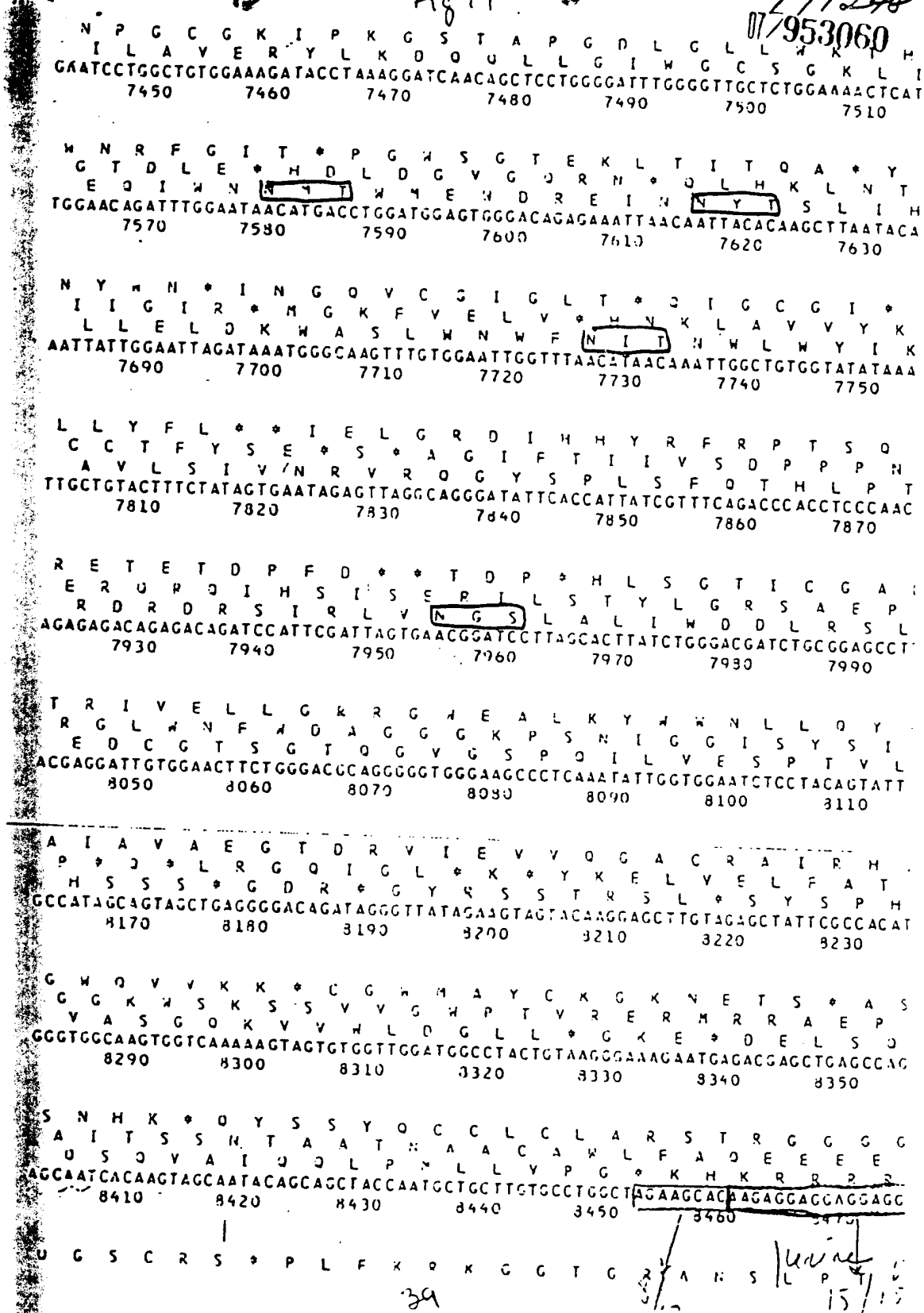


Fig. 16

07/953060

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7930 7940 7950 7960 7970 7980 7990
8050 8060 8070 8080 8090 8100 8110
8170 8180 8190 8200 8210 8220 8230
8290 8300 8310 8320 8330 8340 8350
8410 8420 8430 8440 8450 8460

```
K T H L H H C C A L E C * L E * * I S
G K L I C T T A V P W N A S W S N K L
TGGAAAACTCATTTGCACCACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTC
     7510       7520       7530       7540       7550       7560

Q A * Y I P * L K N R K T S K K R M N K
K L N T F L N * R I A K P A R K E * T R
S L I H S L I E F S Q V Q Q E K N E Q E
AAGCTTAATACATTCCTTAATTGAAGAATCGCAAAACCAGCAAGAAAAGAATGAACAAG
     7630       7640       7650       7660       7670       7680

C G I * K Y S * * * * E A W * V * E * F
V V Y K N I H N D S R R L G R F K N S F
W Y I K I F I M I V G G L V G L R I V F
GTGGTATATAAAAATATTCATAATGATAGTAGGAGGCTTGGTAGGTTTAAGAATAGTTT
     7750       7760       7770       7780       7790       7800

P T S Q P R G D P T G P K E * K K K V E
P P P N P E G T R Q A R R N R R R R W R
H L P T P R G P D R P E G I E E E G G E
CCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGAAGGTGGAG
     7870       7880       7990       7900       7910       7920

I C G A L C L F S Y H R L R D L L L I V
S A E P C A S S A T T A * E T Y S * L *
L R S L V P L Q L P P L E R L T L D C N
TCTGCGGAGCCTTTGTGCCTCTTCAGCTACCACCGCTTGAGAGACTTACTCTTGATTGTA
     7990       8000       8010       8020       8030       8040

L Q Y H S Q E L K N S A V S L L N A T
S Y S I G V R N * R I V L L A C S M P Q
P T V L E S G T K E * C C * L A Q C H S
CCTACAGTATTGGAGTCAGGAACTAAAGAATAGTGCTGTTAGCTTGCTCAATGCCACA
     8110       8120       8130       8140       8150       8160

I R H I P R R I R Q G L E R I L L * D
L F A T Y L E E * D R A W K G F C Y K M
Y S P H T * K N K T G L G K D F A I R W
TATTCGCCACATACCTAGAAGAATAAGACAGGGCTTGGAAAGGATTTTGCTATAAGAT
     8230       8240       8250       8260       8270       8280

S * A S S R W G G S S I S R P G K T W
R A E P A A D G V G A A S R D L E K H G
E L S Q Q Q * G W E Q H L E T W K N M E
AGCTGAGCCAGCAGCAGATGGGGTGGGAGCAGCATCTCGAGACCTGGAAAAACATGG
     8350       8360       8370       8380       8390       8400

G G G G G F S S H T S G T F K T N D L
E E E V G F P V T P G V P L R P M T Y
R R R R W F Q S H L R Y L * D Q * L T
GGAGGAGGAGGTGGGTTTTCCAGTCACACCTCAGGTAGCTTTAAGACCAATGACTTA
     8410       8420       8430       8440       8450       8460

L P T K T R P * S V G L P H T R L L
```

Fig 19

```
          10         20         30         40         50         60
AAGCTTGCCT TGAGTGCTTC AAGTAGTGTG TGCCCGTCTG TTGTGTGACT CTGGTAACTA

          70         80         90        100        110        120
GAGATCCCTC AGACCCTTTT AGTCAGTGTG GAAAATCTCT AGCAGTGGCG CCCGAACAGG

         130        140        150        160        170        180
GACTTGAAAG CGAAAGGGAA ACCAGAGGAG CTCTCTCGAC GCAGGACTCG GCTTGCTGAA

         190        200        210        220        230        240
GCGCGCACGG CAAGAGGCGA GGGGAGGCGA CTGGTGAGTA CGCCAAAAAT TTTGACTAGC

         250        260        270        280        290        300
GGAGGCTAGA AGGAGAGAGA TGGGTGCGAG AGCGTCAGTA TTAAGCGGGG GAGAATTAGA

         310        320        330        340        350        360
TCGATGGGAA AAAATTCGGT TAAGGCCAGG GGGAAAGAAA AAATATAAAT TAAAACATAT

         370        380        390        400        410        420
AGTATGGGCA AGCAGGGAGC TAGAACGATT CGCTGTTAAT CCTGGCCTGT TAGAAACATC

         430        440        450        460        470        480
AGAAGGCTGT AGACAAATAC TGGGACAGCT ACAACCATCC CTTCAGACAG GATCAGAAGA

         490        500        510        520        530        540
ACTTAGATCA TTATATAATA CAGTAGCAAC CCTCTATTGT GTGCATCAAA GGATAGAGAT

         550        560        570        580        590        600
AAAAGACACC AAGGAAGCTT TAGACAAGAT AGAGGAAGAG CAAAACAAAA GTAAGAAAAA

         610        620        630        640        650        660
AGCACAGCAA GCAGCAGCTG ACACAGGACA CAGCAGCCAG GTCAGCCAAA ATTACCCTAT

         670        680        690        700        710        720
AGTGCAGAAC ATCCAGGGGC AAATGGTACA TCAGGCCATA TCACCTAGAA CTTTAAATGC

         730        740        750        760        770        780
ATGGGTAAAA GTAGTAGAAG AGAAGGCTTT CAGCCCAGAA GTGATACCCA TGTTTTCAGC

         790        800        810        820        830        840
ATTATCAGAA GGAGCCACCC CACAAGATTT AAACACCATG CTAAACACAG TGGGGGGACA

         850        860        870        880        890        900
TCAAGCAGCC ATGCAAATGT TAAAAGAGAC CATCAATGAG GAAGCTGCAG AATGGGATAG

         910        920        930        940        950        960
AGTGCATCCA GTGCATGCAG GGCCTATTGC ACCAGGCCAG ATGAGAGAAC CAAGGGGAAG

         970        980        990       1000       1010       1020
TGACATAGCA GGAACTACTA GTACCCTTCA GGAACAAATA GGATGGATGA CAAATAATCC

        1030       1040       1050       1060       1070       1080
ACCTATCCCA GTAGGAGAAA TTTATAAAAG ATGGATAATC CTGGGATTAA ATAAAATAGT

        1090       1100       1110       1120       1130       1140
```

Fig 90

```
AAGAATGTAT AGCCCTACCA GCATTCTGGA CATAAGACAA GGACCAAAAG AACCCTTTAG

      1150        1160        1170        1180        1190        1200
AGACTATGTA GACCGGTTCT ATAAAACTCT AAGAGCCGAG CAAGCTTCAC AGGAGGTAAA

      1210        1220        1230        1240        1250        1260
AAATTGGATG ACAGAAACCT TGTTGGTCCA AAATGCGAAC CCAGATTGTA AGACTATTTT

      1270        1280        1290        1300        1310        1320
AAAAGCATTG GGACCAGCAG CTACACTAGA AGAAATGATG ACAGCATGTC AGGGAGTGGG

      1330        1340        1350        1360        1370        1380
AGGACCCGGC CATAAGGCAA CAGTTTTGGC TGAAGCAATG AGCCAAGTAA CAAATTCAGC

      1390        1400        1410        1420        1430        1440
TACCATAATG ATGCAAAGAG GCAATTTTAG GAACCAAAGA AAGATTGTTA AGTGTTTCAA

      1450        1460        1470        1480        1490        1500
TTGTGGCAAA GAAGGGCACA TAGCCAGAAA TTGCAGGGCC CCTAGGAAAA AGGGCTGTTG

      1510        1520        1530        1540        1550        1560
GAAATGTGGA AAGGAAGGAC ACCAAATGAA AGATTGTACT GAGAGACAGG CTAATTTTTT

      1570        1580        1590        1600        1610        1620
AGGGAAGATC TGGCCTTCCT ACAAGGGAAG GCCAGGGAAT TTTCTTCAGA GCAGACCAGA

      1630        1640        1650        1660        1670        1680
GCCAACAGCC CCACCAGAAG AGAGCTTCAG GTCTGGGGTA GAGACAACAA CTCCCTCTCA

      1690        1700        1710        1720        1730        1740
GAAGCAGGAG CCGATAGACA AGGAACTGTA TCCTTTAACT TCCCTCAGAT CACTCTTTGG

      1750        1760        1770        1780        1790        1800
CAACGACCCC TCGTCACAAT AAAGATAGGG GGGCAACTAA AGGAAGCTCT ATTAGATACA

      1810        1820        1830        1840        1850        1860
GGAGCAGATG ATACAGTATT AGAAGAAATG AGTTTGCCAG GAAGATGGAA ACCAAAAATG

      1870        1880        1890        1900        1910        1920
ATAGGGGGAA TTGGAGGTTT TATCAAAGTA AGACAGTATG ATCAGATACT CATAGAAATC

      1930        1940        1950        1960        1970        1980
TGTGGACATA AAGCTATAGG TACAGTATTA GTAGGACCTA CACCTGTCAA CATAATTGGA

      1990        2000        2010        2020        2030        2040
AGAAATCTGT TGACTCAGAT TGGTTGCACT TTAAATTTTC CCATTAGTCC TATTGAAACT

      2050        2060        2070        2080        2090        2100
GTACCAGTAA AATTAAAGCC AGGAATGGAT GGCCCAAAAG TTAAACAATG GCCATTGACA

      2110        2120        2130        2140        2150        2160
GAAGAAAAAA TAAAAGCATT AGTAGAAATT TGTACAGAAA TGGAAAAGGA AGGGAAAATT

      2170        2180        2190        2200        2210        2220
TCAAAAATTG GGCCTGAAAA TCCATACAAT ACTCCAGTAT TTGCCATAAA GAAAAAAGAC

      2230        2240        2250        2260        2270        2280
AGTACTAAAT GGAGAAAATT AGTAGATTTC AGAGAACTTA ATAAGAGAAC TCAAGACTTC

      2290        2300        2310        2320        2330        2340
TGGGAAGTTC AATTAGGAAT ACCACATCCC GCAGGGTTAA AAAAGAAAAA ATCAGTAACA

      2350        2360        2370        2380        2390        2400
```

Fig 21

```
GTGCTGGATG TGGGTGATGC ATATTTTTCA GTTCCCTTAG ATGAAGACTT CAGGAAGTAT
                2410        2420        2430        2440        2450        2460
ACTGCATTTA CCATACCTAG TATAAACAAT GAGACACCAG GGATTAGATA TCAGTACAAT
                2470        2480        2490        2500        2510        2520
GTGCTTCCAC AGGGATGGAA AGGATCACCA GCAATATTCC AAAGTAGCAT GACAAAAATC
                2530        2540        2550        2560        2570        2580
TTAGAGCCTT TTAGAAAACA AAATCCAGAC ATAGTTATCT ATCAATACAT GGATGATTTG
                2590        2600        2610        2620        2630        2640
TATGTAGGAT CTGACTTAGA AATAGGGCAG CATAGAACAA AAATAGAGGA GCTGAGACAA
                2650        2660        2670        2680        2690        2700
CATCTGTTGA GGTGGGGACT TACCACACCA GACAAAAAAC ATCAGAAAGA ACCTCCATTC
                2710        2720        2730        2740        2750        2760
CTTTGGATGG GTTATGAACT CCATCCTGAT AAATGGACAG TACAGCCTAT AGTGCTGCCA
                2770        2780        2790        2800        2810        2820
GAAAAAGACA GCTGGACTGT CAATGACATA CAGAAGTTAG TGGGAAAATT GAATTGGGCA
                2830        2840        2850        2860        2870        2880
AGTCAGATTT ACCCAGGGAT TAAAGTAAGG CAATTATGTA AACTCCTTAG AGGAACCAAA
                2890        2900        2910        2920        2930        2940
GCACTAACAG AAGTAATACC ACTAACAGAA GAAGCAGAGC TAGAACTGGC AGAAAACAGA
                2950        2960        2970        2980        2990        3000
GAGATTCTAA AAGAACCAGT ACATGGAGTG TATTATGACC CATCAAAAGA CTTAATAGCA
                3010        3020        3030        3040        3050        3060
GAAATACAGA AGCAGGGGCA AGGCCAATGG ACATATCAAA TTTATCAAGA GCCATTTAAA
                3070        3080        3090        3100        3110        3120
AATCTGAAAA CAGGAAAATA TGCAAGAACG AGGGGTGCCC ACACTAATGA TGTAAAACAA
                3130        3140        3150        3160        3170        3180
TTAACAGAGG CAGTGCAAAA AATAACCACA GAAAGCATAG TAATATGGGG AAAGACTCCT
                3190        3200        3210        3220        3230        3240
AAATTTAAAC TACCCATACA AAAGGAAACA TGGGAAACAT GGTGGACAGA GTATTGGCAA
                3250        3260        3270        3280        3290        3300
GCCACCTGGA TTCCTGAGTG GGAGTTTGTC AATACCCCTC CTTTAGTGAA ATTATGGTAC
                3310        3320        3330        3340        3350        3360
CAGTTAGAGA AAGAACCCAT AGTAGGAGCA GAAACGTTCT ATGTAGATGG GGCAGCTAGC
                3370        3380        3390        3400        3410        3420
AGGGAGACTA AATTAGGAAA AGCAGGATAT GTTACTAATA GAGGAAGACA AAAAGTTGTC
                3430        3440        3450        3460        3470        3480
ACCCTAACTG ACACAACAAA TCAGAAGACT GAGTTACAAG CAATTCATCT AGCTTTGCAG
                3490        3500        3510        3520        3530        3540
GATTCGGGAT TAGAAGTAAA TATAGTAACA GACTCACAAT ATGCATTAGG AATCATTCAA
                3550        3560        3570        3580        3590        3600
GCACAACCAG ATAAAAGTGA ATCAGAGTTA GTCAATCAAA TAATAGAGCA GTTAATAAAA
                3610        3620        3630        3640        3650        3660
```

43

Fig 22

```
AAGAAAAA TCTATCTGGC ATGGGTACCA GCACACAAAG GAATTGGAGG AAATGAACAA

      3670       3680       3690       3700       3710       3720
GTAGATAAAT TAGTCAGTGC TGGAATCAGG AAAGTACTAT TTTTAGATGG AATAGATAAG

      3730       3740       3750       3760       3770       3780
GCCCAAGATG AACATGAGAA ATATCACAGT AATTGGAGAG CAATGGCTAG TGATTTTAAC

      3790       3800       3810       3820       3830       3840
CTGCCACCTG TAGTAGCAAA AGAAATAGTA GCCAGCTGTG ATAAATGTCA GCTAAAAGGA

      3850       3860       3870       3880       3890       3900
GAAGCCATGC ATGGACAAGT AGACTGTAGT CCAGGAATAT GGCAACTAGA TTGTACACAT

      3910       3920       3930       3940       3950       3960
TTAGAAGGAA AAGTTATCCT GGTAGCAGTT CATGTAGCCA GTGGATATAT AGAAGCAGAA

      3970       3980       3990       4000       4010       4020
GTTATTCCAG CAGAAACAGG GCAGGAAACA GCATACTTTC TTTTAAAATT AGCAGGAAGA

      4030       4040       4050       4060       4070       4080
TGGCCAGTAA AAACAATACA TACAGACAAT GGCAGCAATT TCACCAGTAC TACGGTTAAG

      4090       4100       4110       4120       4130       4140
GCCGCCTGTT GGTGGGCGGG AATCAAGCAG GAATTTGGAA TTCCCTACAA TCCCCAAAGT

      4150       4160       4170       4180       4190       4200
CAAGGAGTAG TAGAATCTAT GAATAAAGAA TTAAAGAAAA TTATAGGCCA GGTAAGAGAT

      4210       4220       4230       4240       4250       4260
CAGGCTGAAC ATCTTAAGAC AGCAGTACAA ATGGCAGTAT TCATCCACAA TTTTAAAAGA

      4270       4280       4290       4300       4310       4320
AAAGGGGGGA TTGGGGGGTA CAGTGCAGGG GAAAGAATAG TAGACATAAT AGCAACAGAC

      4330       4340       4350       4360       4370       4380
ATACAAACTA AAGAATTACA AAAACAAATT ACAAAAATTC AAAATTTTCG GGTTTATTAC

      4390       4400       4410       4420       4430       4440
AGGGACAGCA GAGATCCACT TTGGAAAGGA CCAGCAAAGC TCCTCTGGAA AGGTGAAGGG

      4450       4460       4470       4480       4490       4500
GCAGTAGTAA TACAAGATAA TAGTGACATA AAAGTAGTGC CAAGAAGAAA AGCAAAGATC

      4510       4520       4530       4540       4550       4560
ATTAGGGATT ATGGAAAACA GATGGCAGGT GATGATTGTG TGGCAAGTAG ACAGGATGAG

      4570       4580       4590       4600       4610       4620
GATTAGAACA TGGAAAAGTT TAGTAAAACA CCATATGTAT GTTTCAGGGA AAGCTAGGGG

      4630       4640       4650       4660       4670       4680
ATGGTTTTAT AGACATCACT ATGAAAGCCC TCATCCAAGA ATAAGTTCAG AAGTACACAT

      4690       4700       4710       4720       4730       4740
CCCACTAGGG GATGCTAGAT TGGTAATAAC AACATATTGG GGTCTGCATA CAGGAGAAAG

      4750       4760       4770       4780       4790       4800
AGACTGGCAT CTGGGTCAGG GAGTCTCCAT AGAATGGAGG AAAAAGAGAT ATAGCACACA

      4810       4820       4830       4840       4850       4860
AGTAGACCCT GAACTAGCAG ACCAACTAAT TCATCTGTAT TACTTTGACT GTTTTTCAGA

      4870       4880       4890       4900       4910       4920
```

Fig 93

CTCTCCTATA AGAAAGCCCT TATTAGGACA TATAGTTAGC CCTAGGTGTG AATATCAAGC

4930 4940 4950 4960 4970 4980
AGGACATAAC AAGGTAGGAT CTCTACAATA CTTGGCACTA GCAGCATTAA TAACACCAAA

4990 5000 5010 5020 5030 5040
AAAGATAAAG CCACCTTTGC CTAGTGTTAC GAAACTGACA GAGGATAGAT GGAACAAGCC

5050 5060 5070 5080 5090 5100
CCAGAAGACC AAGGGCCACA GAGGGAGCCA CACAATCAAT GGACACTAGA GCTTTTAGAG

5110 5120 5130 5140 5150 5160
GAGCTTAAGA ATGAAGCTGT TAGACATTTT CCTAGGATTT GGCTCCATGG CTTAGGGCAA

5170 5180 5190 5200 5210 5220
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5230 5240 5250 5260 5270 5280
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5290 5300 5310 5320 5330 5340
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5350 5360 5370 5380 5390 5400
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5410 5420 5430 5440 5450 5460
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5470 5480 5490 5500 5510 5520
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5530 5540 5550 5560 5570 5580
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5590 5600 5610 5620 5630 5640
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5650 5660 5670 5680 5690 5700
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5710 5720 5730 5740 5750 5760
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5770 5780 5790 5800 5810 5820
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5830 5840 5850 5860 5870 5880
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5890 5900 5910 5920 5930 5940
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5950 5960 5970 5980 5990 6000
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6010 6020 6030 6040 6050 6060
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6070 6080 6090 6100 6110 6120
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6130 6140 6150 6160 6170 6180

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6250 6260 6270 6280 6290 6300
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6310 6320 6330 6340 6350 6360
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6370 6380 6390 6400 6410 6420
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